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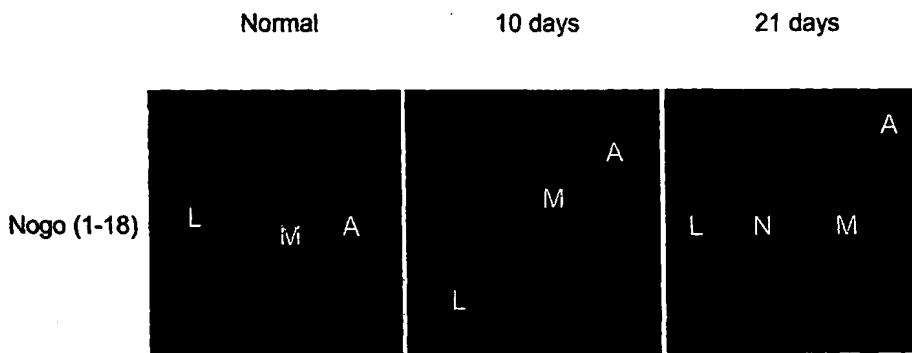
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(54) Title: A NOVEL REGULATOR OF ENDOTHELIAL CELL FUNCTION AND VESSEL REMODELING

Nogo expression decreases after injury and by 21 days is almost completely gone from vessel wall



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(57) Abstract: The present invention relates to previously unknown biological roles of Nogo-B. We have discovered that Nogo-B is a component of endothelial cells. We have also discovered that Nogo-B is highly expressed in intact blood vessels. The amino terminus of Nogo-B promotes the adhesion, spreading and migration of endothelial cells and plays a role in vascular remodeling. Thus, Nogo-B is a novel regulator of vascular homeostasis and remodeling. The present invention provides compositions comprising Nogo-B and fragments and fusion proteins thereof. The present invention also relates to nucleic acids encoding Nogo-B and fragments and fusion proteins thereof, as well as vectors and cells comprising such nucleic acids. The present invention also relates to antibodies specific for Nogo-B and fragments and fusion proteins thereof. The present invention also provides methods for preventing, detecting and treating Nogo-B-related diseases, disorders and conditions.